

What Is Claimed Is:

1 1. An optical disk clamping device, comprising:
2 a diamagnetic member;
3 a turntable supporting an optical disk;
4 a magnet disposed between the diamagnetic member and the
5 turntable; and
6 a clamping member disposed on the turntable to support the
7 magnet, wherein a repellent force is generated
8 between the diamagnetic member and the magnet when
9 the turntable rotates, making the magnet pushes
10 toward the clamping member to fix the optical disk.

1 2. The optical disk clamping device as claimed in claim
2 1, wherein the turntable comprises a positioning portion for
3 supporting the clamping member.

1 3. The optical disk clamping device as claimed in claim
2 2, wherein the positioning portion defines a channel and the
3 clamping member is a steel ball, rotatably limited between the
4 magnet and the channel, and the repellent force is generated
5 between the diamagnetic member and the magnet when the turntable
6 rotates, pushing part of the steel ball beyond the channel to
7 fix the optical disk.

1 4. The optical disk clamping device as claimed in claim
2 3, wherein the width of the channel is smaller than the diameter
3 of the steel ball such that the steel ball partly protrudes
4 beyond the channel.

1 5. The optical disk clamping device as claimed in claim
2 1, further comprising a shaft and a retaining washer, wherein
3 the shaft passes through the magnet and the turntable, and the
4 retaining washer connects to the shaft to restrain the magnet.

1 6. The optical disk clamping device as claimed in claim
2 5, wherein the shaft defines a groove for seating the retaining
3 washer.

1 7. The optical disk clamping device as claimed in claim
2 2, wherein the clamping member is an elastic member, and the
3 repellent force is generated between the diamagnetic member and
4 the magnet when the turntable rotates, deforming the elastic
5 member to clamp the optical disk.

1 8. The optical disk clamping device as claimed in claim
2 1, wherein the diamagnetic member is an aluminum member.

1 9. The optical disk clamping device as claimed in claim
2 1, wherein the turntable further comprises a pad to support the
3 optical disk.

1 10. An optical disk clamping device, comprising:
2 a magnet;
3 a turntable supporting an optical disk;
4 a diamagnetic member disposed between the magnet and the
5 turntable; and
6 a clamping member disposed on the turntable to support the
7 diamagnetic member, wherein repellent force is
8 generated between the diamagnetic member and the
9 magnet when the turntable rotates, making the

10 diamagnetic member pushes toward the clamping member
11 to fix the optical disk.

1 11. The optical disk clamping device as claimed in claim
2 10, wherein the turntable comprises a positioning
3 portion to support the clamping member.

1 12. The optical disk clamping device as claimed in claim
2 11, wherein the positioning portion defines a channel
3 and the clamping member is a steel ball, rotatably
4 limited between the diamagnetic member and the
5 channel, and the repellent force is generated between
6 the diamagnetic member and the magnet when the
7 turntable rotates, pushing part of the steel ball
8 beyond the channel to fix the optical disk.

1 13. The optical disk clamping device as claimed in claim
2 12, wherein the width of the channel is smaller than the diameter
3 of the steel ball such that the steel ball partly protrudes
4 beyond the channel.

1 14. The optical disk clamping device as claimed in claim
2 10, further comprising a shaft and a retaining washer, wherein
3 the shaft passes through the diamagnetic member and the
4 turntable, and the retaining washer connects to the shaft to
5 restrain the diamagnetic member.

1 15. The optical disk clamping device as claimed in claim
2 14, wherein the shaft defines a groove seating the retaining
3 washer.

1 16. The optical disk clamping device as claimed in claim
2 11, wherein the clamping member is an elastic member, and the

3 repellent force is generated between the diamagnetic member and
4 the magnet when the turntable rotates, deforming the elastic
5 member to clamp the optical disk.

1 17. The optical disk clamping device as claimed in claim
2 10, wherein the diamagnetic member is an aluminum member.

1 18. The optical disk clamping device as claimed in claim
2 10, wherein the turntable further comprises a pad to support the
3 optical disk.